

(12) **United States Patent**
Anderson

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(54) **SYSTEM AND METHOD FOR PREVENTING
DAMAGE TO MEDIA FILES WITHIN A
DIGITAL CAMERA DEVICE**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
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This patent is subject to a terminal dis-
claimer.

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(51) Int. Cl.⁷ **H02H 3/05; H03K 19/003**

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713/340**

(58) Field of Search **714/22, 14, 24,
714/5, 8, 10; 348/187, 175; 713/300**

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,323,987	*	4/1982	Holtz et al.	365/229
4,658,352	*	4/1987	Nagasawa	714/14
4,763,333	*	8/1988	Byrd	714/22
5,079,585	*	1/1992	Yamada	174/22
5,283,792	*	2/1994	Davies, Jr. et al.	714/22
5,475,441	*	12/1995	Parulski et al.	348/552
5,477,264	*	12/1995	Sarbadhikari et al.	348/231
5,493,335	*	2/1996	Parulski et al.	348/233
5,664,089	*	9/1997	Byers et al.	714/14
5,790,878	*	8/1998	Anderson et al.	713/340
5,935,259	*	8/1999	Anderson	714/22

* cited by examiner

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(57) **ABSTRACT**

A system and method for preventing damage to media files within a digital camera comprise a power manager for detecting power failures, an interrupt handler for responsively incrementing a counter device and a removable memory driver for performing memory access operations, evaluating the counter device to determine whether a power failure has occurred during the memory access operation and for repeating the memory access operation whenever a power failure has occurred during the memory access operation.

20 Claims, 9 Drawing Sheets

